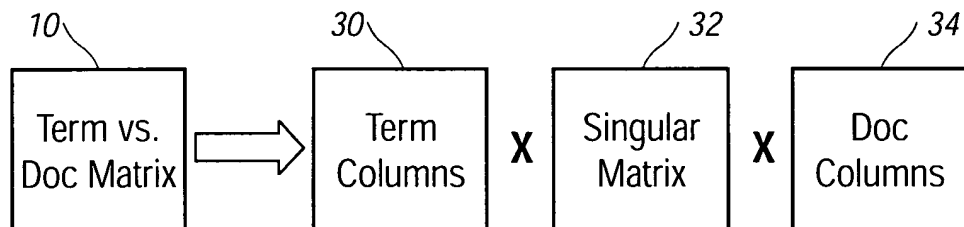


	Doc #1	Doc #2	...	Doc #n
able	1	0	...	1
acid	0	2	...	0
...
<term m>	1	0	...	1

Term by Document Matrix

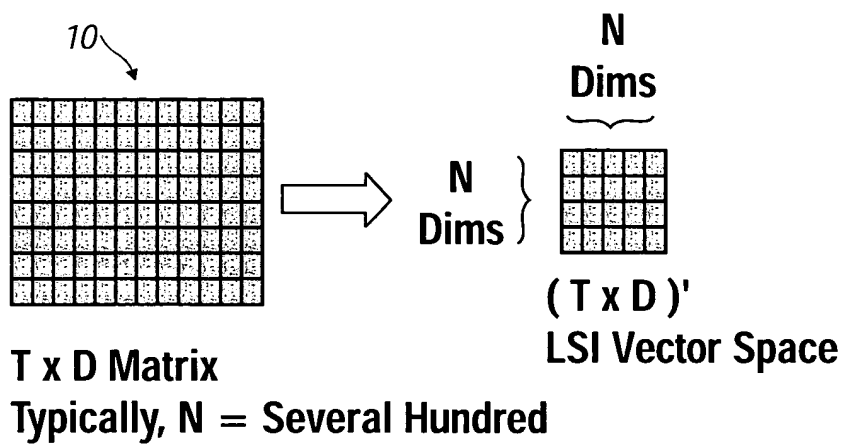
FIG. 1



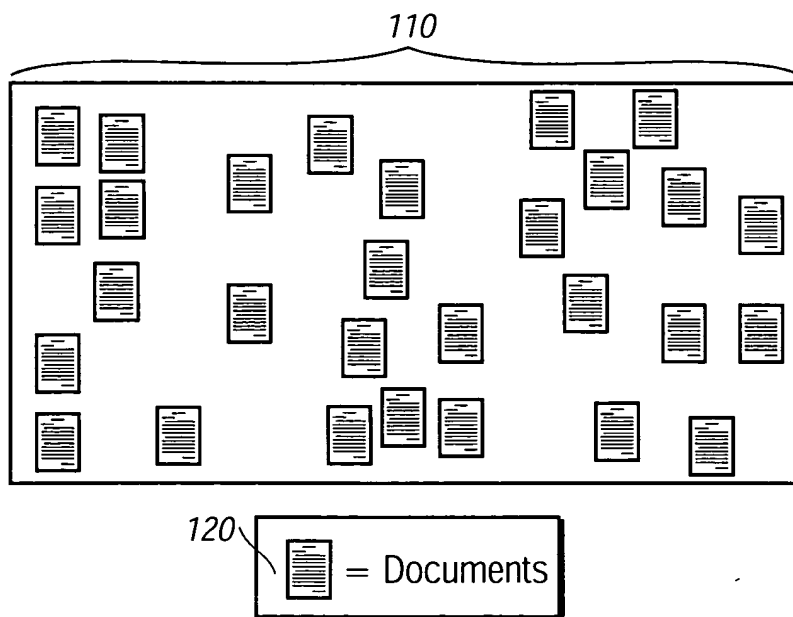
**SVD Extracts Key
Relationships among Terms -
Basis for Conceptual Matching**

Singular Value Decomposition (SVD) Operation

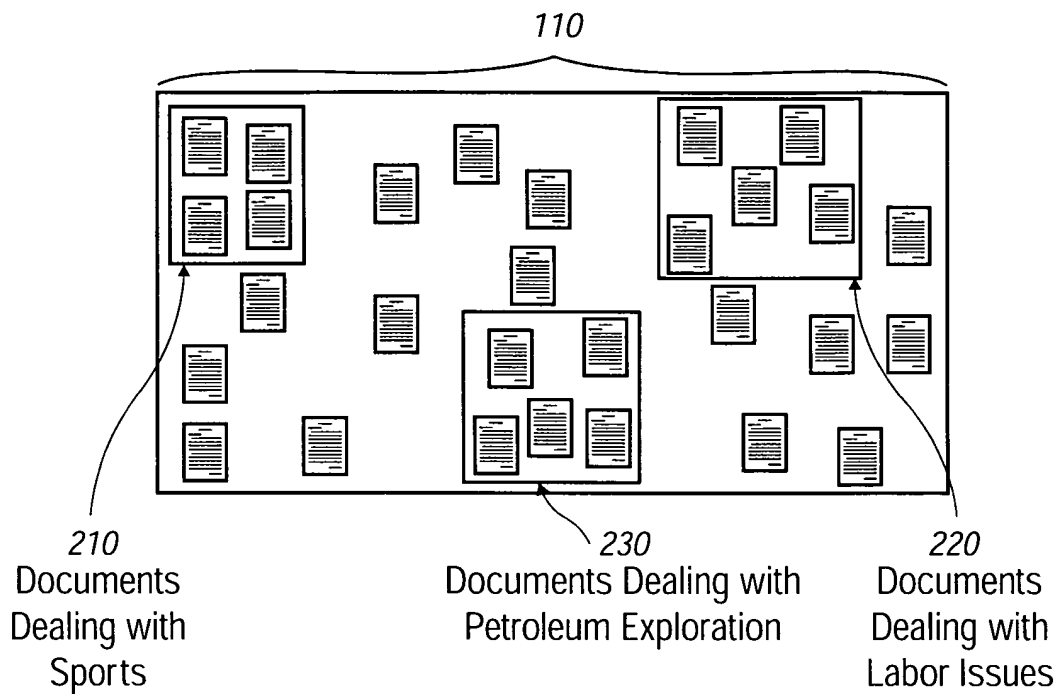
FIG. 2



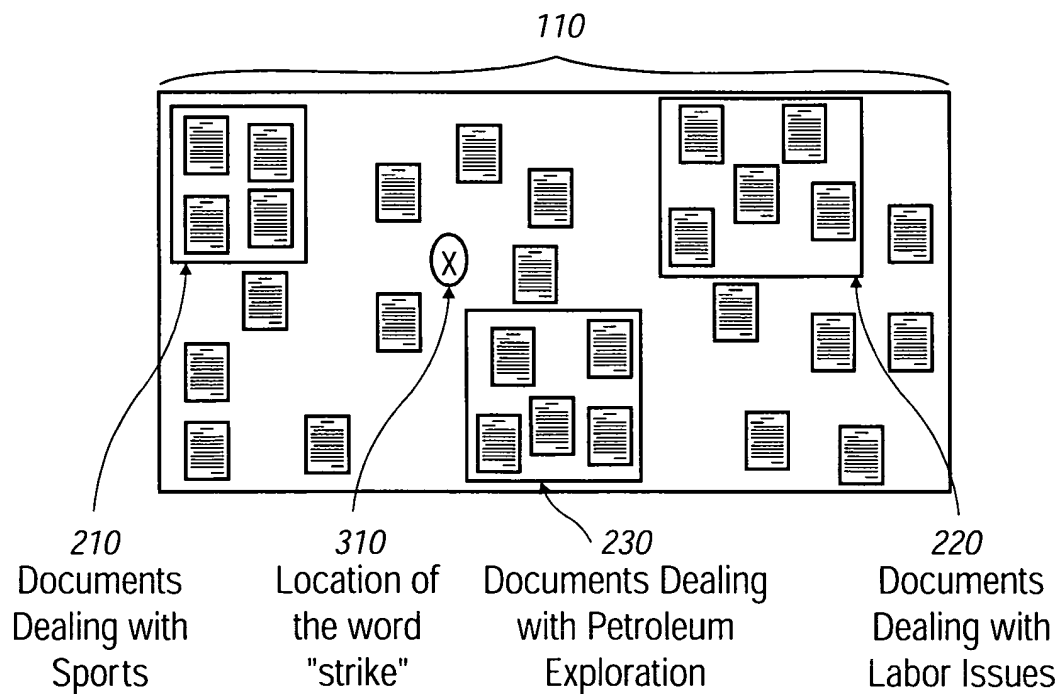
Dimensionality Reduction
FIG. 3



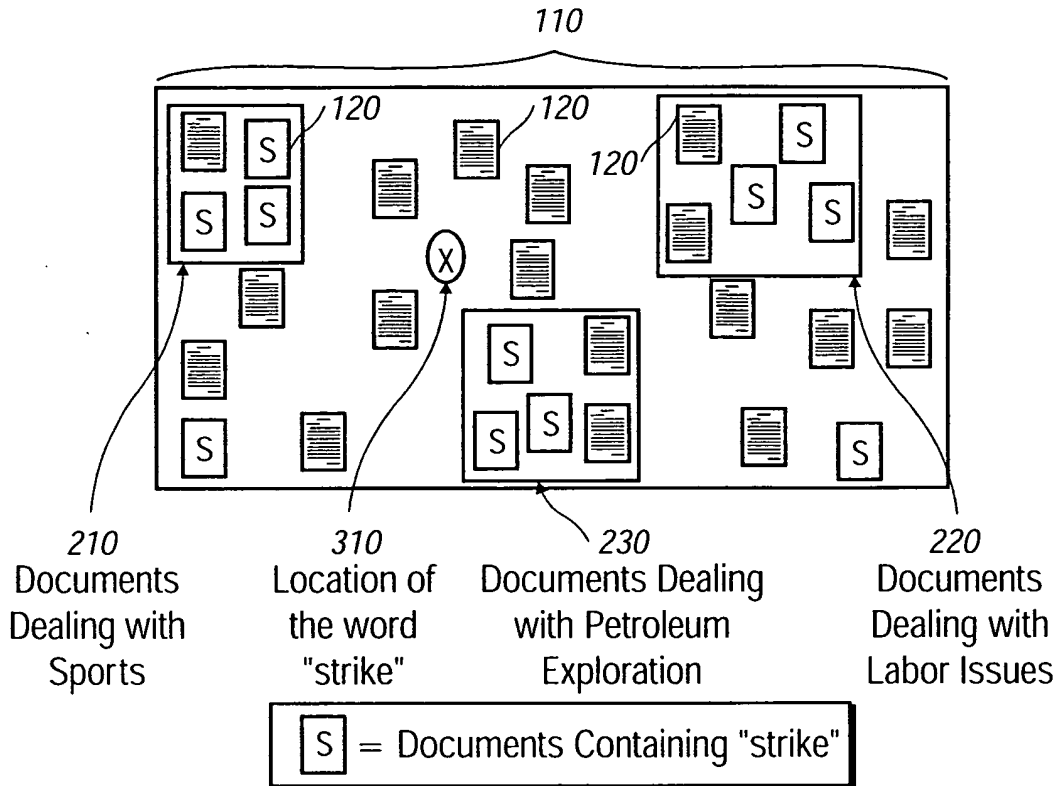
2-D Representation of LSI Space
FIG. 4



Grouping of Documents by Topic in LSI Space
FIG. 5

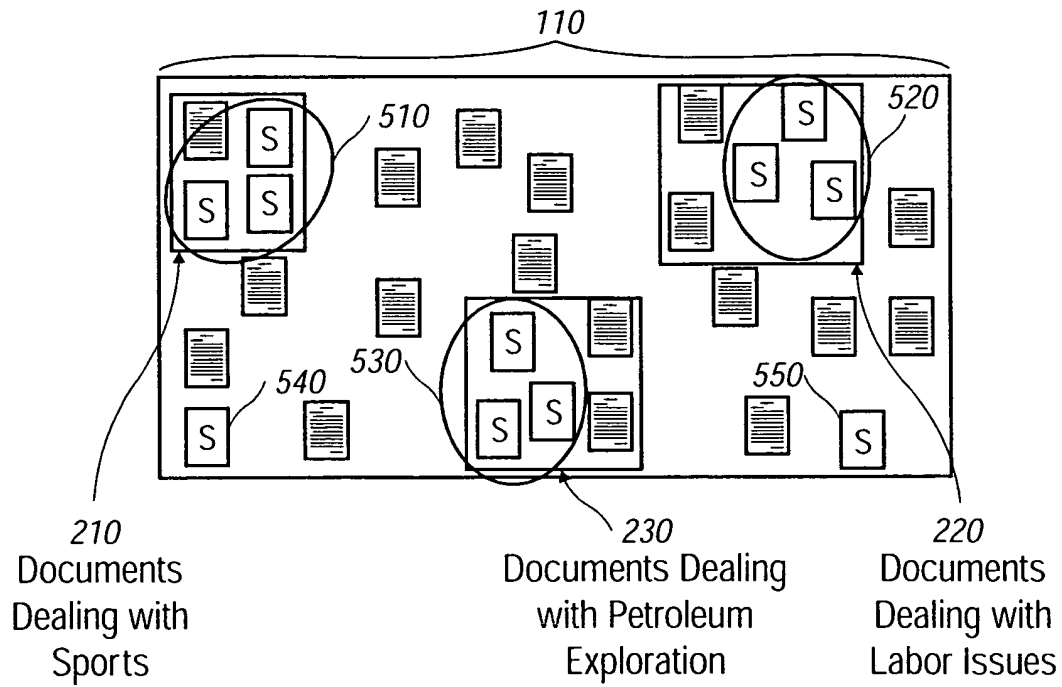


Location of the Word *Strike* in the LSI Space
FIG. 6



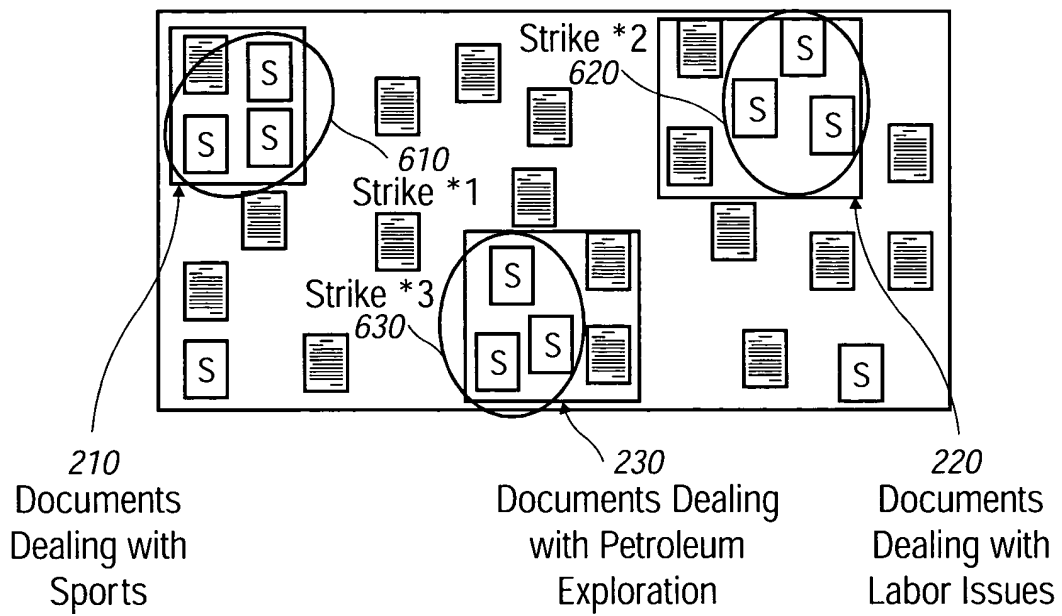
Distribution of Documents that Contain the Word *Strike*

FIG. 7



Clustering of Occurrences of the Word *Strike*

FIG. 8



Implicit Location of Derived Word Senses
FIG. 9